Name:_____

Mr. Tiénou-Gustafson & Mr. Bielmeier

Geometry, Period_____

Due Date:_____

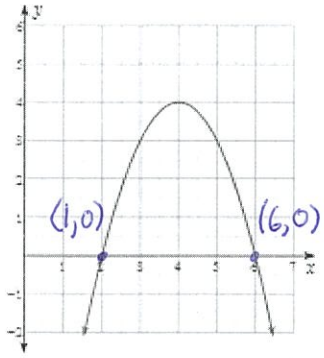
HW70_Solutions of Quadratics

Form A

Geometry Homework

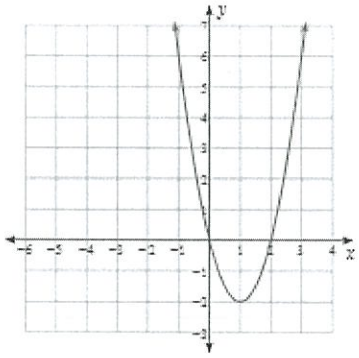
Find the solutions, roots, and zeros below:

1.



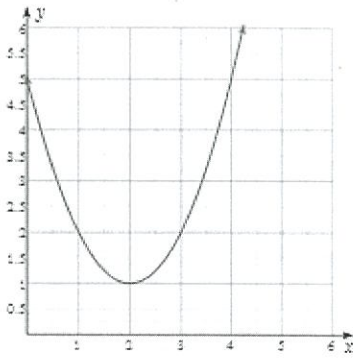
X= {1, 6}

2.



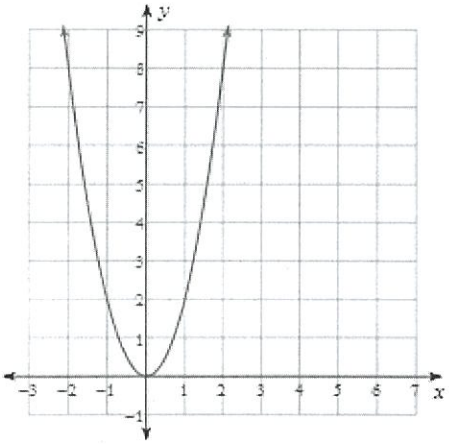
X=

3.



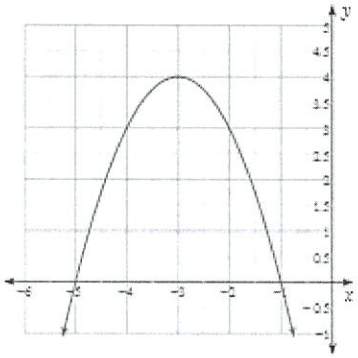
X=

4.



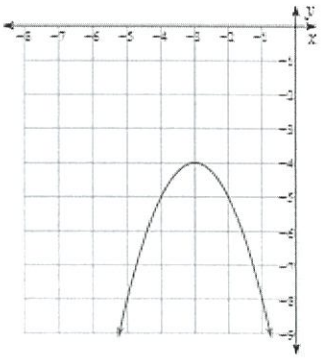
X=

5.



X=

6.



X=

7. $x^2 - 10x + 21$ solutions are when y is zero

x	y
0	21
1	12
3	0
5	−4
7	0
9	12
11	32

X= { , }

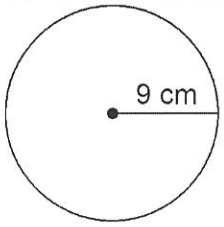
8. $x^2 + 9x + 20$

x	y
−5	0
−4	0
−3	56
0	20

9. $x^2 + 2x - 24$

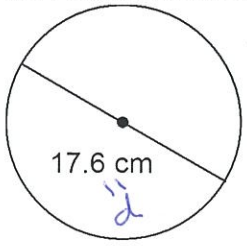
x	y
−6	0
0	−24
6	24
4	0

10. Find the area of the circle below: $A = \pi r^2$



11. Find the area of the circle below:

$r = \frac{d}{2}$; $A = \pi r^2$



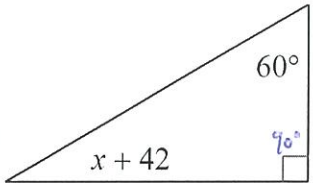
12. Simplify $\sqrt{16x^2}$

$\sqrt{16} \cdot \sqrt{x^2}$

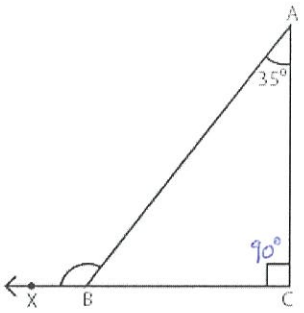
13. Simplify $\sqrt{20v^3}$

$\sqrt{20} \cdot \sqrt{v^3}$

14. Solve for x:



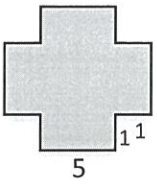
15. Find ∠ABX and ∠ABC



16. If a cookie occupies the area of $49\pi\ cm^2$, what will be the circumference of the cookie?

$r = \frac{d}{2}$; $A = \pi r^2$; $C = \pi d$

17. In the square below, 1 ft by 1 ft corners have been cut out. Find the perimeter and area of the remaining figure.



Perimeter: _____

Area: _____

18. Last year, Rachel planted a garden that was 11 feet by 5 feet, surrounded by a mesh wire fence to keep rabbits out. This year, she has twice as much wire mesh. She plans to keep the same dimensions by doubling each side length. How much **<u>larger</u>** will the **<u>area</u>** be this year than last year?